



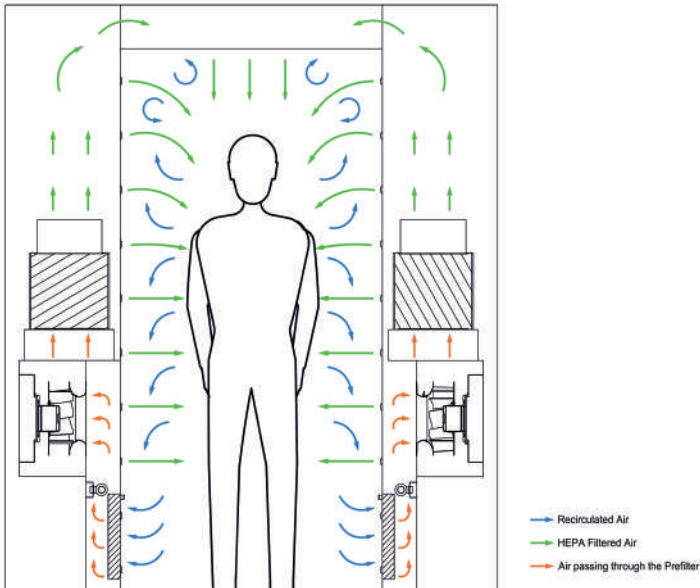
METISAFE AIR SHOWER & AIR LOCK



- High velocity air jets
- H14 HEPA filtration
- Stainless steel inner surfacey
- Energy saving low resistance unique HEPA unit (E-Series)
- GMP compatible (E-Series)

“Air-Lock & Air-Shower units are used for personnel entrance to controlled clean environments. Those units have critical importance to keep quality at GMP/cGMP qualified production/ manufacturing plants.”

AIRFLOW DIAGRAM



ISO5 Cleanliness Class HEPA filtered air is blow out from the adjustable air nozzles at a rate of > 20m/s onto the personnel or material. Efficiently guided high-speed air sweeps materials and particles from personnel. The swept particles are sucked through the air suction grids located close to the ground. The air shower unit operates on the recirculation principle. The intaken air passes through the prefilter to remove coarse particles. The filtered air from the coarse particles gets directed to the blowing nozzles after HEPA filtration. This process is repeats during set time in each pass.

The air shower unit operates in Standby mode when there is no active usage. The low-speed fan ensures onstant cleanliness inside the cab.

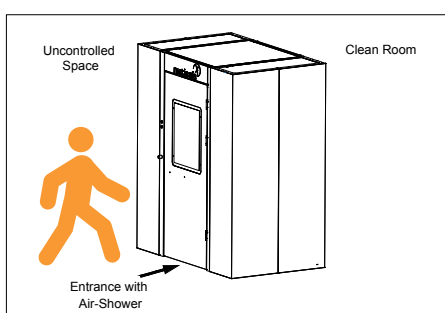


Microprocessor Control Unit

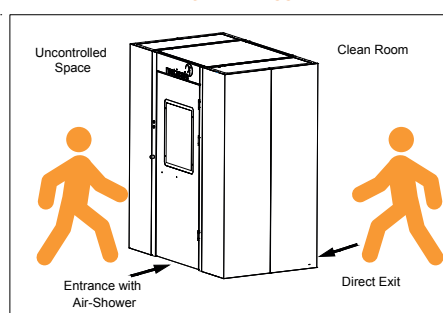
Color Screen Touch Control Panel: 3.5" Color Touch Screen, Time Setting for Access Control Operation, Air Flow Rate and Operation Parameters Display, Standby Operation Mode, Audio and Visual Warning System in Case of Failure, Full Time Air Flow Measurement, Advanced Filter Compensation Adjusting Air Flow Rate at Increasing Filter Resistance

Alarm System: Pre-Filter Alarm, Technical Service Alarm, HEPA Filter Alarm, Fan Failure Alarm, Door open

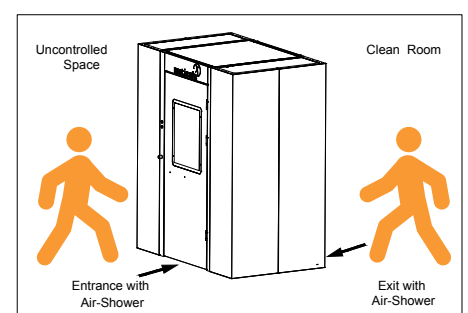
ONE WAY PASS

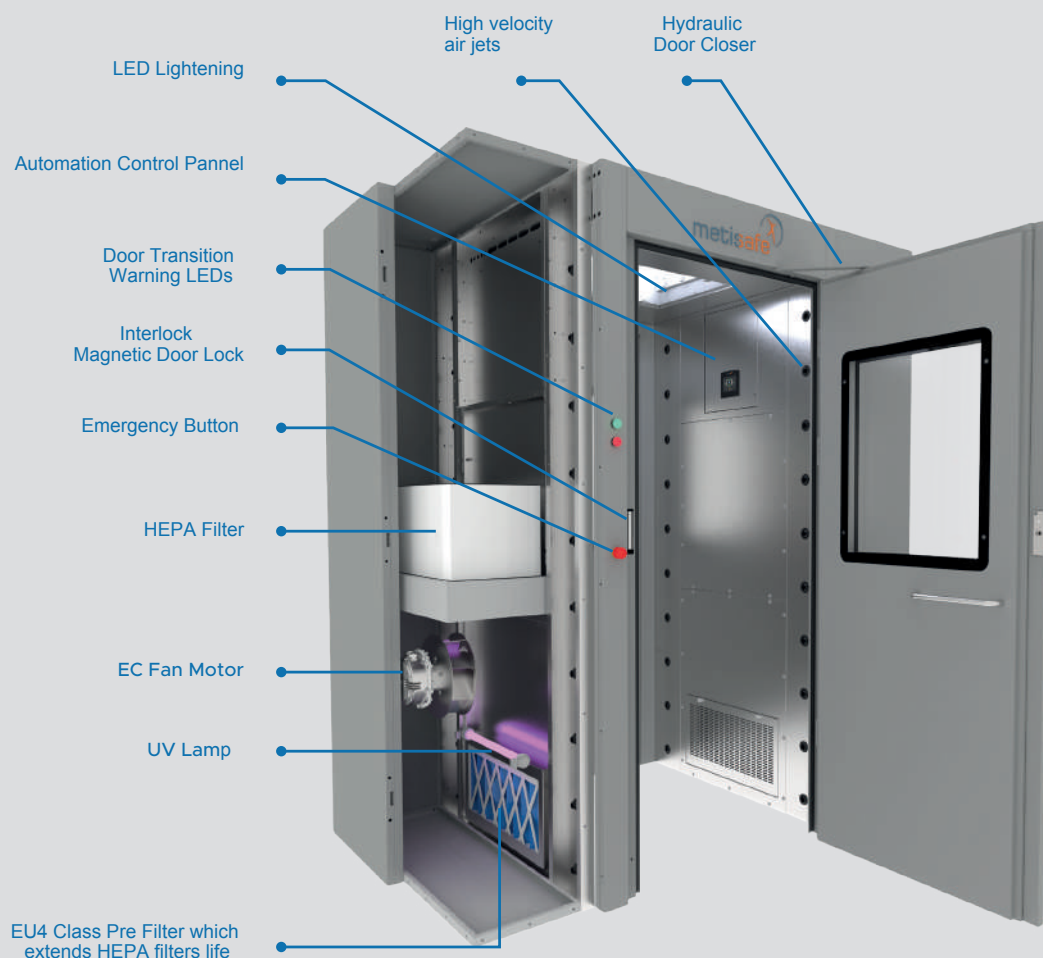


ONE WAY AIR-SHOWER
TWO WAY PASS



TWO WAY AIR-SHOWER





Functional Modular Design for Easy Installation

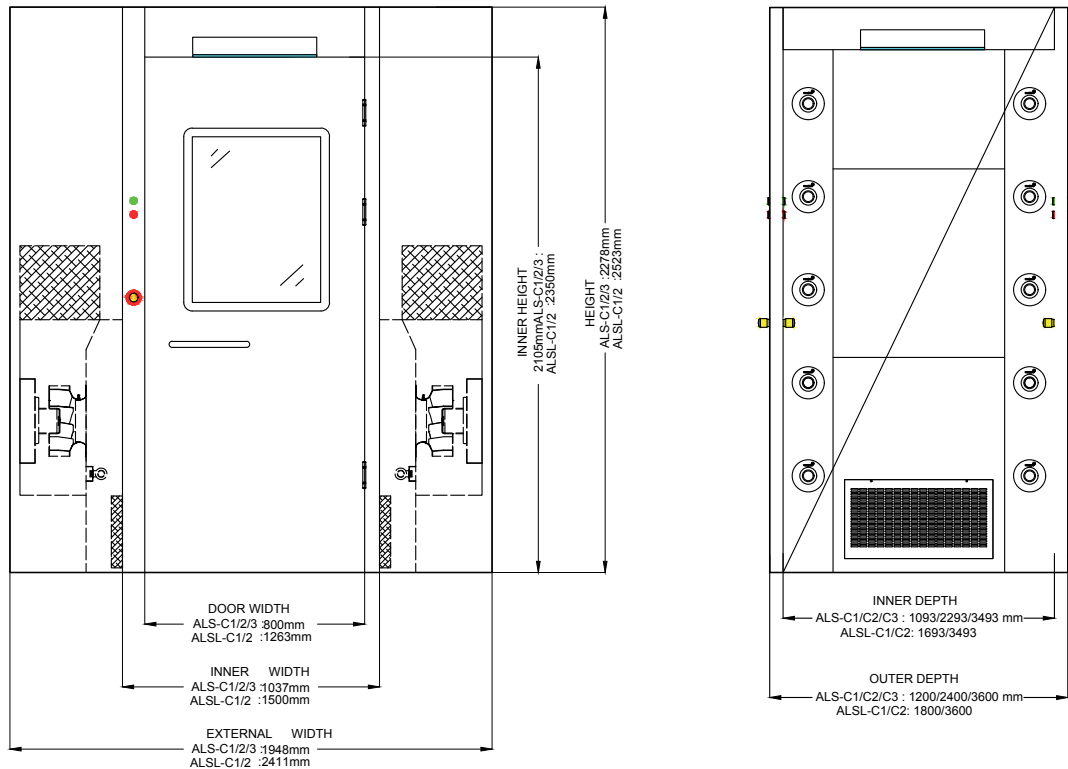


High Velocity Air Jets



CAT #	OPTIONALS
MOP.UVC	UVC Lamp
MOP.BMS	BMS Entegration
MOP.ADI	Lux Adjustable Illumination

METISAFE AIR SHOWER & AIR LOCK TECHNICAL DRAWING



AIR SHOWER & AIR LOCK TECHNICAL SPECIFICATIONS					
Model	ALS-C1	ALS-C2	ALS-C3	ALSL-C1	ALSL-C2
	ALS-E1	ALS-E2	ALS-E3	ALSL-E1	ALSL-E2
DIMENSIONS AND WEIGHT					
Internal Dimensions (WxLxH) mm	1037x1093x2105	1037x2293x2105	1037x3493x2105	1500x1693x2350	1500x3493x2350
External Dimensions (WxLxH) mm	1948x1200x2278	1948x2400x2278	1948x3600x2278	2411x1800x2523	2411x3600x2523
Weight (kg)	575	1030	1500	650	1200
HEPA FILTER AND AIRFLOW DYNAMICS					
Filter Initial Pressure (max Pa)		250-300			
Filters (EN 1822)	Front Filter	EU4			
	Main Filter	H14 HEPA, 0,3 μm paticle %99.995 < filtration efficiency 30 m²			
Air Change Per Hour (ACH)		>300		>400	
Air Jet Velocity		10-22 m/s			
ENERGY					
Fan Motor Power (Watt)		520 W	1040 W	1560 W	520 W 1040 W
Supply Voltage / Frequency		230 V / 50-60 Hz			
ERGONOMICS AND COMFORT					
Noise Level		≤ 65 dB	≤ 68 dB	≤ 70 dB	≤ 72 dB ≤ 74 dB
Illumination		> 800 lux			
MAIN BODY MATERIAL AND DESIGN FEATURES					
Main Body	C Series	Main body covered with anti-bacterial polyester paint on steel and inner surface of 304 stainless steel			
	E Series	Main body covered with anti-bacterial polyester paint on 304 stainless steel and inner surface of 304 stainless steel			
Air Lock Controlled Door System		Electromagnetic door locks, emergency pass button, door lock light warning system, stainless steel door handle, concealed easy-to-clean hydraulic door closer			
QUALITY AND CERTIFICATES					
CE, ISO9001-2015 QualityManagement Certificate, ISO14644 Cleanroom Class Compatibility, EN61010 Electric and Electronic Safety Compatibility, Accredited Testing Institution Validation Guarantee in case the installation is opareted by Metisafe® Certified Technical Personnel					

